

# KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Ag. Degree Programme 2015 Admission

II<sup>nd</sup> Semester Final Examination-August 2016

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Cat. No: Ento 1202

Title: Insect Ecology and Integrated Pest Management  
including Beneficial Insects (2+1)

Marks: 50.00

Time : 2 hrs

## I Fill up the blanks

(10 x 1 =10)

1. The term ecology was coined by \_\_\_\_\_ ✓
2. Insects active at dusk are called \_\_\_\_\_ ✓
3. The optimum temperature for the normal development of insect is known as \_\_\_\_\_
4. \_\_\_\_\_ is the basic unit of pest management. ✓
5. \_\_\_\_\_ is the innate ability of the population to reproduce and survive. ✓
6. \_\_\_\_\_ are the secondary consumers.
7. Injurious insects carried from one plant to another are \_\_\_\_\_
8. Vector of Bunchy top disease of banana \_\_\_\_\_ ✓
9. \_\_\_\_\_ trap is used for assessing ground moving insects. ✓
10. \_\_\_\_\_ is the rate at which new individuals are added to the population.

## II Write short notes ANY FIVE

(5 x 2 =10)

1. Unique features of an agro eco system.
2. Life-table
3. Biotic potential. ✓
4. Environmental resistance. ✓
5. Basic components of Pest surveillance.
6. Advantages and disadvantages of Antifeedants. ✓
7. Different types of Insect attractants. ✓

## III. Explain ANY FIVE of the following

(5 x 4 =20)

1. Sampling techniques for the assessment of flying insects.
2. Injury caused by internal feeders.
3. Insect repellents. ✓
4. Influence of temperature on development of insects. ✓
5. ETL & EIL ✓
6. Non-feeding injury in plants by insects. ✓
7. Types of pest population estimates.

## IV. Write essay on ANY ONE

(1 x 10=10)

1. Discuss the potentials and limitations of IPM? ✓
2. Role of Insect growth regulators and hormones in pest management?

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